

SEQUENCE LISTING

<110> Frank Michiels et al.

<120> Improved Barstar Gene

<130> 2428-0108P

<140> unknown

<141> 2001-10-05

<160> 10

<170> PatentIn Ver. 2.0

<210> 1

<211> 270

<212> DNA

<213> Bacillus amyloliquefaciens

<220>

<221> misc_feature

<222> (1)..(270)

<223> CDS, function = "inhibitor of barnase", product =
"barstar"

<400> 1

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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: protein

<400> 2

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Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr
      35             40             45

Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr
      50             55             60

Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala
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 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: other nucleic acid, "improved barstar DNA"

<220>
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 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: protein

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 35 40 45
 Tyr Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu
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<210> 5
 <211> 4032
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: other nucleic acid, "plasmid pMV71"

<220>

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<221> misc_feature
<222> (1999)..(3400)
<223> label = PRAC1, "promoter region of rice actin gene
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<222> (3401)..(3676)
<223> label = barstar, "barstar DNA"

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<220>
<221> misc_feature
<222> (3677)..(4003)
<223> label = 3'nos, "region containing 3' untranslated
      end of  nopaline synthase gene of Agrobacterium
      T-DNA"

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<220>
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<222> (3399)..(3404)
<223> label = NcoI, "NcoI recognition site"

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<220>
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<222> (4016)..(4021)
<223> label = KpnI, "KpnI recognition site"

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<210> 6

<211> 563

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: other nucleic acid, "part of plasmid pLH43"

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<221> misc_feature

<222> (1)..(6)

<223> label = NcoI, "NcoI recognition site"

<220>

<221> misc_feature

<222> (3)..(278)

<223> label = synb*, "improved barstar DNA"

<220>

<221> misc_feature

<222> (279)..(545)

<223> label = 3'nos, "region containing 3' untranslated

end of nopaline synthase gene of Agrobacterium
T-DNA"

<220>

<221> misc_feature

<222> (558)..(563)

<223> label = KpnI, "KpnI recognition site"

<400> 6

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<210> 7

<211> 5349

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: other nucleic acid, "T-DNA of pTTS243"

<220>

<221> misc_feature

<222> Complement((1)..(25))

<223> label = RB, "T-DNA right border"

<220>

<221> misc_feature

<222> Complement((98)..(331))

<223> label = 3'g7, "region containing 3' untranslated end of Agrobacterium T-DNA gene 7"

<220>

<221> misc_feature

<222> Complement((332)..(883))

<223> label = bar, "region coding for phosphinethricin acetyl transferase"

<220>

<221> misc_feature

<222> Complement((884)..(2258))

<223> label = P35S, "35S promoter of Cauliflower Mosaic Virus"

<220>

<221> misc_feature

<222> (2281)..(3969)

<223> label = PE1, "promoter of E1 gene of rice (WO 92/13956)"

<220>

<221> misc_feature

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<222> (3970)..(4245)
<223> label = synb*; "improved barstar DNA"

<220>
<221> misc_feature
<222> (4246)..(4577)
<223> label = 3'chs, "region containing 3' untranslated
        end of chalcone synthase gene"

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<220>
<221> misc_feature
<222> Complement((5325)..(5349))
<223> label = LB, "T-DNA left border"

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<400> 7

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<210> 8

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: other nucleic acid, "oligonucleotide CASOLX1"

<220>

<221> misc_feature

<222> (10)..(15)

<223> label = KpnI, "KpnI recognition site"

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24

<210> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: other nucleic
acid, "oligonucleotide CASOLX2"

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<222> (5)..(10)
<223> label = AatII, "AatII recognition site"

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<223> label = bar, "region coding for phosphinothricin
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<223> label = P35S, "35S promoter of Cauliflower Mosaic
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<220>
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<222> (1740)..(2284)
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<222> (2285)..(2560)
<223> label = synb*, "improved barstar DNA"

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